

MARKED-UP VERSION OF AMENDED SPECIFICATION

Table III
Identified agonists of hTAS2R10

Substance	Structure	Approx. threshold [mM]	EC ₅₀ [mM]
Strychnine *		0.003	0.04
Brucine		0.01	0.06
Denatonium benzoate		0.003	0.07
Absinthine		0.01	

Table IV
Identified agonists of hTAS2R14

Substance	Structure	Reacts at
L-Tyrosine		1 mM

Table V
Identified agonists of hTAS2R16

Substance	Structure	Threshold [mM]	EC ₅₀ [mM]
Naphthyl-β-D-Glucoside		0.4 ± 0.1	1.0 ± 0.1
Phenyl-β-D-Glucoside		0.07 ± 0.02	1.1 ± 0.1
Salicin		0.07 ± 0.02	1.4 ± 0.2
Helicin		0.3 ± 0.1	2.3 ± 0.4
Arbutin		0.5 ± 0.2	5.8 ± 0.9
2-Nitrophenyl-β-D-Glucoside		0.3 - 1	Not determined
4-Nitrophenyl-β-D-Glucoside		1 - 3	Not determined
Methyl-β-D-Glucoside *		15 ± 6	32 ± 11
Esculin		4 ± 2	Not determined
4-Nitrophenyl-β-D-Thioglucoside		1 - 5	Not determined
4-Nitrophenyl-β-D-Mannoside		1 - 3	Not determined
Amygdalin		2.3 ± 0.9	20 ± 3.4

Table VI
Identified agonists of hTAS2R38

Substance	Structure	Approx. Threshold [μM]	EC ₅₀ [μM]
Acetylthiourea		2	15
N,N-Dimethyl-thioformamide		10	55
N,N'-Diphenylthiourea		0.3	2.3
N-Ethylthiourea		30	260
2-Imidazolidinethione (=N,N'-Ethylenethiourea)		10	not determined
4(6)-Methyl-2-thiouracil		20	180
N-Methylthiourea		100	estimated 600-800
Phenylthiocarbamid (PTC)		0.3	2
6-Phenyl-2-thiouracil		0.15	0.5
6-Propyl-2-thiouracil (PROP)		0.3	2
Tetramethylthiourea		10-30	100
Thioacetamide		100	not determined
Thioacetanilide		3	18
2-Thiobarbituric acid		reacts at 10 mM	

Table VI (continued)

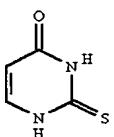
2-Thiouracil		300	estimated 2000
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Table VII
Identified agonists of hTAS2R43

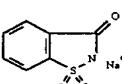
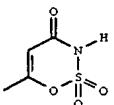
Substance	Structure	Approx. Threshold [mM]	EC ₅₀ [mM]
Saccharin		0.2	1.1
Acesulfame K		No response up to 10 mM	

Table VIII
Identified agonists of hTAS2R44

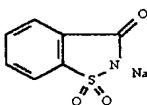
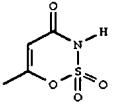
Substance	Structure	Approx. Threshold [mM]	EC ₅₀ [mM]
Saccharin		0.2	estimated 2-5
Acesulfame K		0.5	3

Table IX
Identified agonists of hTAS2R45

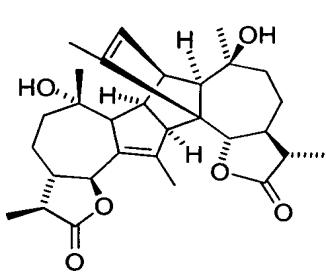
Substance	Structure	Approx. Threshold [mM]	EC ₅₀ [mM]
Absinthine		0.003	Not determined

Table X
Identified agonists of hTAS2R46

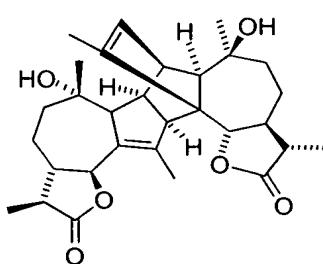
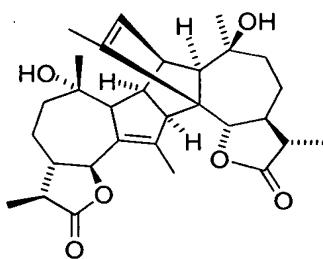
Substance	Structure	Approx. Threshold [mM]	EC ₅₀ [mM]
Absinthine		0.001	Not determined

Table XI
Identified agonists of hTAS2R48

Substance	Structure	Approx. Threshold [mM]	EC ₅₀ [mM]
Absinthine		0.03	Not determined